Tennessee Department of Environment and Conservation,
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243
(615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)
STATE OPERATING PERMIT (SOP)
NOTICE OF INTENT (NOI)

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☐ SOPC00000 (no discharge) ☐ Unknown, please advise

Application type: ☐ New Permit ☒ Permit Reissuance ☐ Permit Modification

If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: ____

OPERATION IDENTIFICATION

Operation Name: Triple A Chicks	County: Marion
Operation Location/ Physical Address: 8240 RA Griffith Hwy Whitwell TN 37397	Latitude: 35° 7' 23.9" N Longitude: 85° 30' 51" W
Name and distance to nearest receiving water(s):	
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:	

Animal Type: ☒ Poultry ☐ Swine ☐ Dairy ☐ Beef ☐ Other ____

Number of Animals: 59,000 | Number of Barns: 2 | Name of Integrator: Pilgrim Pride

Type of Animal Waste Management: (check all that apply)
☒ Dry
☐ Liquid
☐ Liquid, Closed System (i.e. covered tank, under barn pit, etc.)

Attach the NMP ☐ NMP Attached | Attach the closure plan ☐ Closure Plan Attached | Attach a topographic map ☐ Map Attached

PERMITTEE IDENTIFICATION

Official Contact (applicant): Chris Layne	Title or Position: owner			
Mailing Address: 8240 RA Griffith Hwy ~~Whitwell TN 37397~~	City: Whitwell	State: TN	Zip: 37397	☐ Correspondence ☐ Invoice
Phone number(s): 423-942-4036 / 423-413-8227	E-mail:			
Optional Contact:	Title or Position:			
Address:	City:	State:	Zip:	☐ Correspondence ☐ Invoice
Phone number(s):	E-mail:			

APPLICATION CERTIFICATION AND SIGNATURE (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type	Signature	Date
Chris Layne owner	Chris Layne	4/12/2011

STATE USE ONLY

Received Date: RECEIVED JUN 01 2011	Reviewer	EFO	T & E Aquatic Fauna	Tracking No.
	Impaired Receiving Stream	High Quality Water		QC Date: RECEIVED MAY 27 2011

Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
2) All animals in confinement are prevented from coming in direct contact with waters of the state.
3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Signature of CAFO Operator:

Date: 4/12/2011

Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All land application of litter will be done at application rates calculated in the Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.

Date: 4/12/2011

APPENDIX B

Agreement for the Removal of Litter, Manure and/or Process Wastewater from an AFO

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. This agreement is for (amount of waste removed, i.e. tons, gallons, etc.) 55 Tons of waste, removed on (date) Feb 16 2011, from the facility owned by Chris Layne and located at 8240 RA Griffith Hwy TN 37397.

A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or groundwater.

B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.

C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes, wetlands or wells.

D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.

E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.

F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.

G. Apply no more nitrogen or phosphorus than can be used by the crop.

H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells. The following non-application buffer widths, taken from NRCS Conservation Practice Standard 590, should be used when applicable:

Object, Site	Buffer Width, feet	Situation
Wells	150	Up-slope of application site
	300	Down-slope of application site, if conditions warrant application
Waterbody	30-100	Depending on the amount and quality of vegetation and slope
Public Use Area	300	All
Residences	300	Other than producer

I. Do not apply litter, manure and/or process wastewater when the ground is frozen, flooded, saturated or on steep slopes subject to flooding, erosion or rapid runoff.

J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.

K. Keep records of locations where poultry litter will be used as a fertilizer.

I, Danny Mann (name) am the person receiving litter, manure, and/or process wastewater and do understand the conditions listed above.

Danny Mann (signature)

Feb 16 2011 (date)

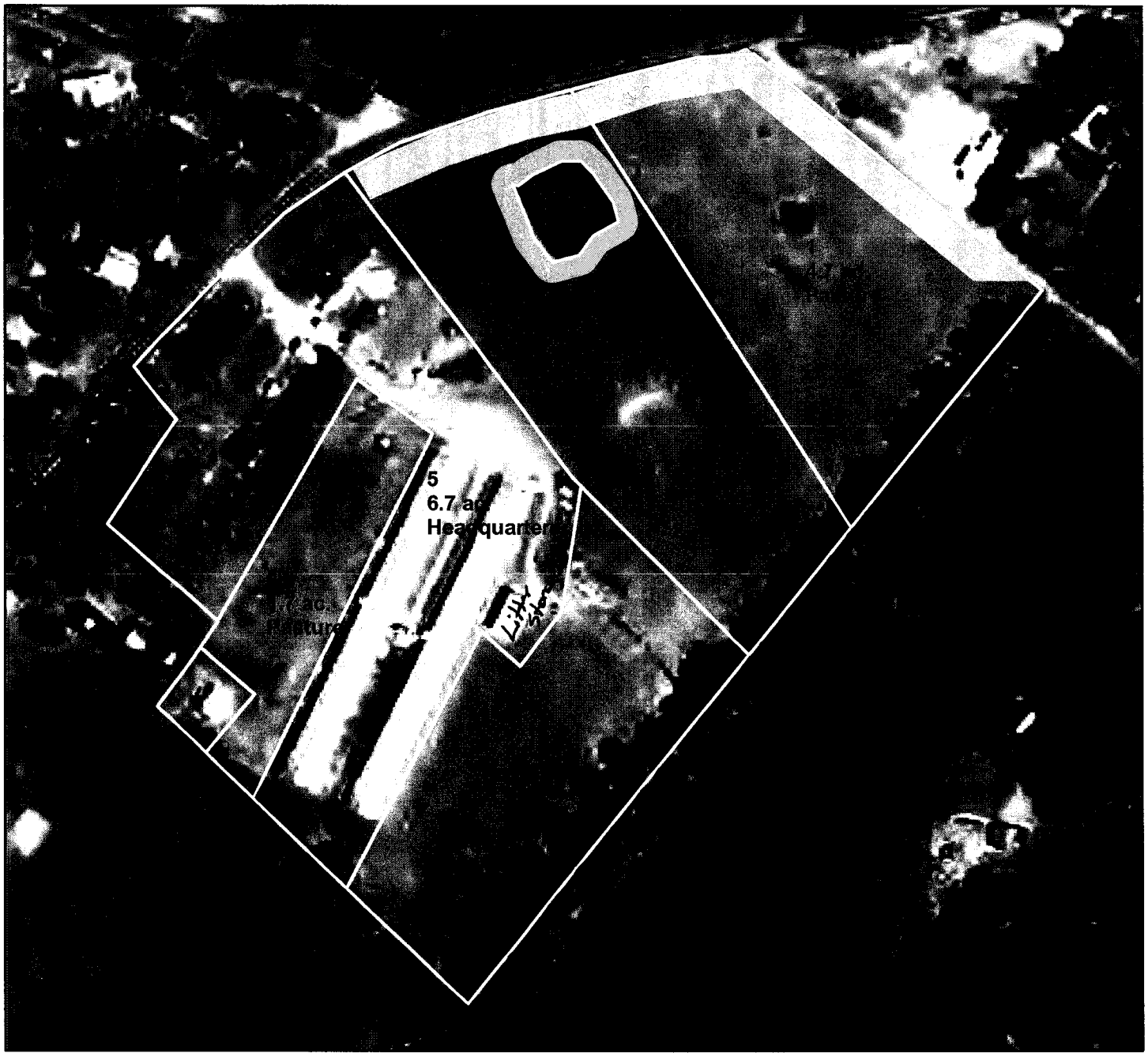
316 Honey Hollow Trail (address)
Jasper, TN

423 942 4457 (phone)

Conservation Plan Map

Customer(s): CHRISTOPHER A LAYNE

Field Office: JASPER SERVICE CENTER
Agency: NRCS
Assisted By: Dewitt L Simerly



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Pollution Control

Legend

- Consplan
- Buffer_Output.shp
- Buffer_Output2.shp

110 0 110 220 330 440 Feet

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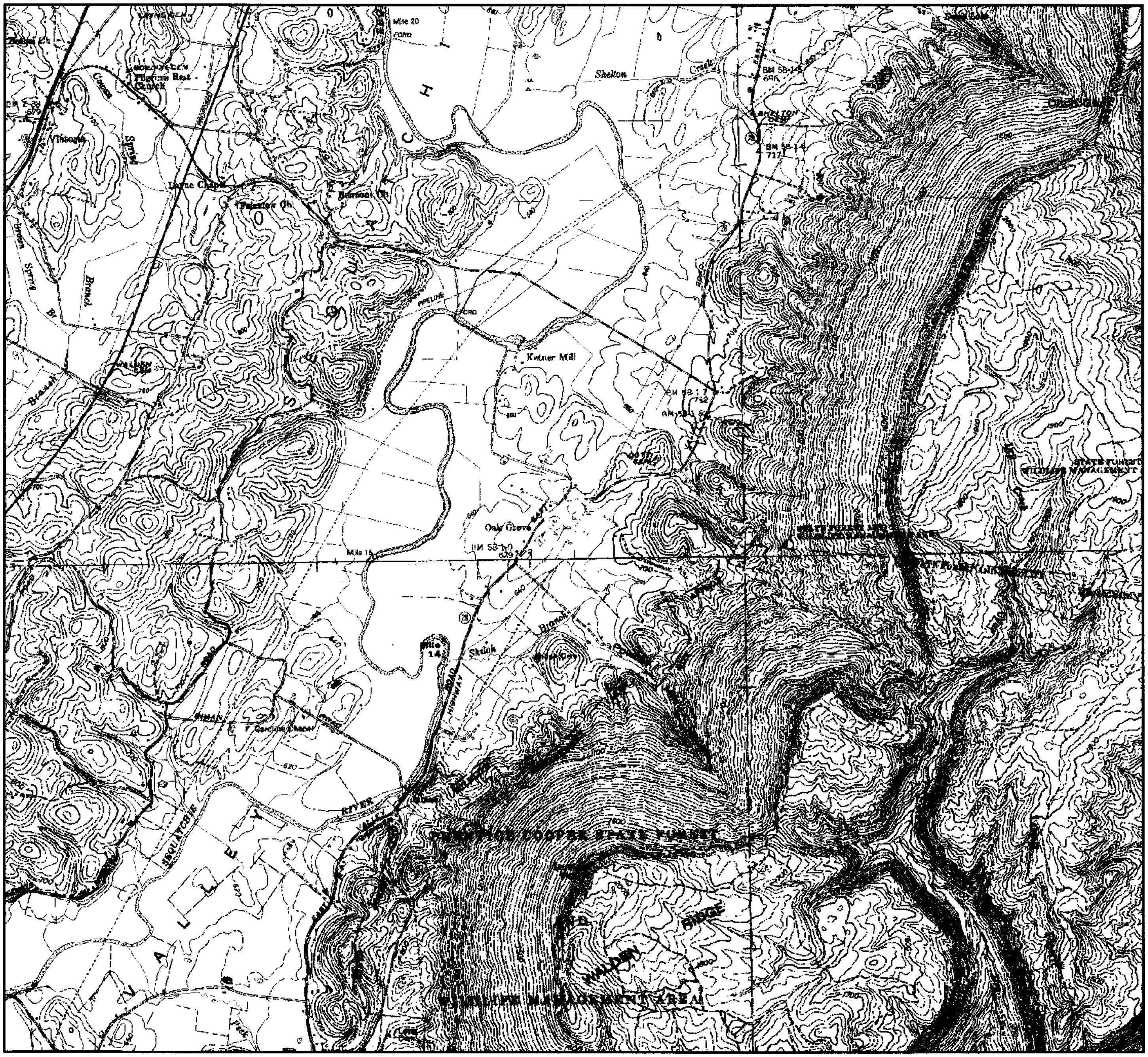
Topo Map
Whitwell

Customer(s): CHRISTOPHER A LAYNE

Field Office: JASPER SERVICE CENTER
Agency: NRCS
Assisted By: Dewitt L Simerly



Lat. 35 deg. 7' 23.9 " N
Long. 85 deg. 30' 51" W

Legend

Consplan
Buffer_Output.shp
Buffer_Output2.shp

1,900 0 1,900 3,800 5,700 7,600
Feet

N

N ient Management Plan - Po ry

For Use by Farms

Exporting 100% of Litter Generated

1. Farmer/ Producer Information

Is **ALL** Litter Hauled Offsite*

*If the answer is "No," do not complete this form.

Yes	No

Please circle one

First Name: Christopher

Last Name: Layne

Farm/ Operation Name: Triple "A" Farm

Tennessee County: Marion

2. Volumes and Calculations

Poultry Type:

Broiler	Pullet	Layer

circle the type(s)

Key

A **Number of birds per house per grow-out:** 29500

B **Number of Houses:** 2

C **Number of Grow-Outs / Year:** 6

D **Average Weight of Litter Produced (lbs.)/ Bird / Grow-Out** *(see Table at right or use your farm average if known)* **2.1**

The amount of litter removed from a poultry house will vary depending on the litter moisture content, type and size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations.

Type of Bird	Market/ Mature Weight (lbs)	Avg. Weight of Litter Produced (lbs)/ Bird / Grow-Out
Broilers	small (3.8 - 5 .8)	2.1
	large (5.9 - 7+)	2.4
Layer	8 - 12	8
Pullet	5.5	3

*Take **Bolded** Letters in **Key** Column Above and Below to Assist in Calculating Values Below*

Number of Birds per Grow-Out = A x B = 59000

Number of Birds Example: If A = 22,000 and B= 2 and C= 5.5 then:

22,000 X 2 = 44,000 number of birds

KEY

E **Number of Birds per Year** = A x B x C = 354000

Number of Birds per Year Example: If A = 22,000 and B= 2 and C = 5.5 then:

22,000 x 2 x 5.5 =242,000 number of birds per year

Total Tons of Litter Produced per Year on the Farm = E x D / 2,000 = 371.7

Tons of Litter Produced Example: If E = 242,000 and D = 2.1 lbs. then:

242,000 x 2.1 lbs = 508,200 lbs. / 2,000 = 254 Tons

Tons of Litter Exported from Farm / Year 371.7

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Nutrient Management Plan - Poultry

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3. Litter Handling and Storage

Litter Contents from Manure Analysis

Laboratory Name	House	Date of Analysis	Total N	P_2O_5[a]	K_2O[b]	Units
Agr. Diagnostic Lab		3/29/2011	63.0	63.7	69.0	lbs./Ton
						lbs./Ton
						lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

4/21/2011

Signature / Date Signed

Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

Composting	Incineration	Other: Freezer
please circle one		

CL
initials

Closure Plan

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In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

4/12/2011

Signature that I have read and agree to this Closure Plan / Date signed

Notes:

N = Nitrogen P_2O_5 = Phosphorus Oxide K_2O = Potassium Oxide

[a]If Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P_2O_5.

[b]If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K_2O.

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Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved.

✓ **Forms**

- ✓ Signed revised Notice of Intent Form
- ✓ Signed Addendum to Nutrient Management Plan

✓ **Maps**

- ✓ Map of Farm/ Operation Showing the Location of Barns/ Houses, Compost Bins, Litter Storage Bins, Nearby Roads, Streams, Wetlands, etc.
- ✓ Topographical map of the Farm/ Operation showing property lines and location of poultry houses.

✓ **Calculations and Volumes**

- ✓ Number of Birds per House
- ✓ Total Number of Birds per Year
- ✓ Number of Houses
- ✓ Number of Grow-Outs Each Year
- ✓ Average Weight of Birds
- ✓ Tons of Litter Produced Per Year

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✓ **Manure Analysis / Mortality Disposal**

- ✓ Annual Manure Analysis Performed by an Accredited Laboratory
- ✓ Statement Regarding Dead Animal Disposal / Mortality Management*

**If rendering is method listed, make sure to include the name and address of the renderer in the notes area at the bottom of this sheet.*

Notes: Birds Placed in Freezer Picked up By Pilgrims Corp

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AGRICULTURAL DIAGNOSTIC LABORATORY
UNIVERSITY OF ARKANSAS - FAYETTEVILLE
***MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

Name:	CHRIS LAYNE	Received in lab:	3/29/2011
Address:	8240 GRIFFITH HWY	Mailed:	4/05/2011
City:	WHITWELL	State,Zip:	TN 37397
County:	MARION (TN)	CK#:	NO # ON CHECK

Lab. No.	M10528						
Sample No.	NONE GIVEN	1					
Animal type	none given	Broilers					
-age/lbs	none given						
Bedding type	none given	Shavings					
Manure type	none given						
Sample date	none given						
Age of manure	none given						
pH	8.7						
EC(umhos/cm)	14430						
% H20	25.08						
	-on dry basis-						
Total %N	4.20						
Total %P	1.86						
Total %K	3.80						
Total %Ca	3.44						
Total %Carbon							
NO3-N, mg/kg							
NH4-N, mg/kg							
	-on as-is basis-						
Total %N	3.15						
Total %P	1.39						
Total %K	2.85						
Total %Ca	2.58						
Total %Carbon							
NO3-N, mg/kg							
NH4-N, mg/kg							
	-lbs/ton on as-is basis-						
N	63.0						
P2O5	63.7						
K2O	69.0						
Ca	51.6						
Total Carbon							
NO3-N							
NH4-N							

***all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content
*lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20*2.29
*lbs/ton K2O = %Total K on "as-is" basis multiplied by 20*1.2

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MAY 27 2011

U. S. Department of Agriculture
Natural Resources Conservation Service

Chris Layne

Poultry System

Dewitt Simerly

May 4, 2011

(This sheet generates nutrient values and volumes for poultry litter)

Poultry Type	Broiler (2.1 avg. weight)
Number of Birds	58,000
Method of Dead Bird Disposal	Rendering
Mortality Rate	3.0 %
Flocks per Year	6.0 flocks per year
Pounds of Litter Produced/yr	730,800 lbs/yr
Volume of Litter Produced/yr	24,360 cu.ft./yr
Tons of Litter Produced/yr	365 tons/year
Tons of Litter sold or given away	
Tons of Litter Needed for Compostin	
a. Dead Birds Produced	
b. Litter Needed	
Tons of Compost to Spread	
Tons of Litter/Compost to Spread	365 tons/year
Method of Storage & Cleanout	Broiler (cake)
Nutrients Produced	23,020 lbs of N per yr
	23,276 lbs of P2O5 per yr
	25,213 lbs of K2O per yr
Nutrient Value of Litter/Compost	63 lbs of N per ton
	64 lbs of P2O5 per ton
	69 lbs of K2O per ton

(Version 10.0, July 2004)

TENNESSEE DEPARTMENT OF AGRICULTURE
Water Resources Program

May 27, 2011

Ms. Erin O'Brien
TDEC
L&C Annex, 6th Floor
Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Comprehensive Nutrient Management Plan (CNMP) for CAFO permit for Mr. Chris Layne, Triple "A" Chicks, in Whitwell, Tennessee.

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, Closure Plan, NMP, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden
CAFO Specialist

: //enclosures

ec:// Mr. Dewitt Simerly, NRCS District Conservationist, Marion County, TN

Ellington Agricultural Center
440 Hogan Road
Nashville, TN 37220
Telephone: 615-837-5492 Fax: 615-837-5025

TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

Name of Owner/Operator: Chris Layne

Operation Name: Triple A Chicks

Address of Operation: 8240 RA Griffith Hwy. Whitwell, TN 37397

Phone Number: (423) 942-4036
(423) 413-8927

County: Marion

Date application was initiated:

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MAY 27 2011

Date approval forwarded to TDEC:

MAY 27 2011

NMP/CNMP Approval Date:

THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT

MAY 27 2011

OPERATION OR AS WARRANTING THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS

Date approval received by TDEC

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TN Division Of Water Pollution Control

TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: Angela Warden 5/27/11
Date

Chris Layne Whitwell, TN
Tyson A Chicks

Nutrient Management Plan Requirements

5/27/11
Marion Co.

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

☑ 1. **Two maps: (1.)** A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. **(2.)** A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.

☑ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.

☑ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.

☑ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.

☑ 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.

☑ 6. Statement regarding method of **dead animal disposal**.

☑ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

☑ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.

☑ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

☑ ***Notice of Intent* form** must be submitted with all applications from Class II (Medium) CAFOs

OR

☑ **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs

☑ **Addendum to Nutrient Management Plan**.